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PATENT SPECIFICATION

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COMPLETE SPECIFICATION

Improvements in Confining Dust Generated in Pottery Fettling

I, WILLIAM HANCOCK, of "Moorfields", Moss Hill, Stockton Brook, Stoke-on-Trent, in the County of Stafford, a British subject, do hereby declare the invention for which I pray 5 that a patent may be granted to me, and the method by which it is to be performed to be particularly described in and by the following statement:

The present invention has relation to 10 apparatus for use when fettling or similarly treating pottery and like ware. The present method of fettling pottery ware is usually carried out over an open dust box and grid, the finer particles of clay dust pollute the atmosphere of the workshop and the operatives clothing.

The present invention has for its object to provide a simple apparatus for the more efficient collection of dust, protection of the 20 operative against inhaling the dust, and prevention of the operative's clothing against dust contamination.

According to the present invention there is provided a hollow upright member in the form 25 of a breastplate having spaced front and rear walls and behind which the operator stands with his or her arms projecting from each side thereof, the said breastplate having apertures in the front wall preferably at the upper part 30 thereof and being connected at its lower part to a suction source which passes alongside or adjacent a grid above a collection box preferably with drawer, the arrangement being such that the operator can watch his or her fettling 35 or like handwork from above the breastplate, the dust being drawn into the said breastplate whilst the larger fettlings fall into the box or tray for subsequent removal. A hinged glass top may be provided at the upper part of the 40 breastplate through which the operator views his or her work without contact from dust or fettling material.

The present device is preferably for use upon a bench adjacent which the operator 45 stands but it may be provided with supporting legs.

In order that the invention may be clearly understood and readily carried into practice

reference may be had to the appended explanatory drawings in which:—

Fig. 1 illustrates the apparatus in front elevation.

Fig. 2 is a side elevation and

Fig. 3 is a plan view.

In a convenient embodiment of the present 55 invention the breastplate *a* is of shallow upright box-like formation closed at the upper part *a*¹ and spread at its lower part *a*² to enter two parallel horizontal channels *b*¹ which connect at the front to a dust extract pipe *b*² 60 having a suction source (not shown). The upper part of this breastplate *a* on what may be termed the front is provided with a plurality of elongated slots *a*³ and said breastplate at its side may be cut away at *a*⁴ for the passage of 65 the operator's arm or arms. Disposed centrally in the horizontal base section between the side conduits *b*¹ is a mesh or grid *c* and beneath this mesh or grid is a box-like container *b* having a drawer *b*³, Fig. 2, which opens from 70 the rear of the apparatus. At the upper part of the breastplate is provided a pivotal glass top *d*, Fig. 2, which can be set at a desired angle.

In operation the present device is normally 75 rested upon a bench although it may be self-supporting by means of legs and the operator stands at the rear of the breastplate *a* being protected thereby and looks through the glass top *d* and carries out the fettling above the grid *c* with his or her arms virtually embracing 80 the breastplate *a* so that the fettled parts fall through the mesh grid *c* into the drawer *b*³ where they can be subsequently collected and it will be appreciated that in the operation of 85 fettling dust is drawn through the apertures *a*³ in the breastplate and the fettled parts are kept remote from the operator for his protection.

The breastplate *d* may be rubber covered and lies between the operator and the article to be fettled and the light dust is drawn into 90 the slots of the breastplate by the extraction plant, thus avoiding pollution of the shop and contamination of the operative's clothing.

What I claim is:—

1. Apparatus for use when fettling or 95 similarly treating pottery and like ware com-

prising a hollow upright member in the form of a breastplate having spaced front and rear walls and behind which the operator stands with his or her arms projecting from each side thereof, the said breastplate having apertures in the front wall preferably at the upper part thereof and being connected at its lower part to a suction source which passes alongside or adjacent a grid above a collection box preferably with drawer.

2. Apparatus as claimed in Claim 1 having

a hinged glass top at the upper part of the breastplate for the purpose stated.

3. Apparatus for use when fettling or similarly treating pottery and like ware substantially as hereinbefore described or illustrated in the accompanying drawings.

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PROVISIONAL SPECIFICATION

Improvements in Confining Dust Generated in Pottery Fettling

I, WILLIAM HANCOCK, of "Moorfields", Moss Hill, Stockton Brook, Stoke-on-Trent, in the County of Stafford, a British subject, do hereby declare this invention to be described in the following statement:—

The present invention has relation to apparatus for use when fettling or similarly treating pottery and like ware. The present method of fettling pottery ware is usually carried out over an open dust box and grid, the finer particles of clay dust pollute the atmosphere of the workshop and the operatives clothing.

30 The present invention has for its object to provide a simple apparatus for the more efficient collection of dust, protection of the operative against inhaling the dust, and prevention of the operatives clothing against dust contamination.

According to the present invention there is provided a hollow upright member in the form of a breastplate behind which the operator works with his or her arms on each side thereof, the said breastplate having apertures preferably at its upper part remote from the operator and being connected at its lower part to a suction source which passes alongside or adjacent a grid above a collection box preferably with drawer, the arrangement being such that the operator can watch his or her fettling or like handwork from above the breastplate, the dust being drawn into the said breastplate whilst the larger fettlings fall into the box or tray for subsequent removal. A hinged glass top may be provided at the upper part of the breastplate through which the operator views his or her work without contact from dust or fettling material.

55 The present device is preferably for use upon a bench adjacent which the operator stands but it may be provided with supporting legs.

In a convenient embodiment of the present invention the breastplate is of shallow upright box-like formation closed at the upper part and

spigoted and spread at its lower part to enter two parallel horizontal channels which connect at the front to a dust extract point having a suction source. The upper part of this breastplate on what may be termed the front is provided with a plurality of elongated slots and said breastplate at its side may be slotted for the passage of the operator's arms. Disposed centrally in the horizontal base section between the side conduits is a mesh or grid and beneath this mesh or grid is a box-like container having a drawer which opens from the rear of the apparatus. At the upper part of the breastplate is provided a pivotal glass top which can be set at any desired angle.

In operation the present device is normally rested upon a bench although it may be self-supporting by means of legs and the operator stands at the rear of the breastplate being protected thereby and looks through the glass top and carries out the fettling above the grid with his or her arms virtually embracing the breastplate so that the fettled parts fall through the mesh grid into the drawer where they can be subsequently collected and it will be appreciated that in the operation of fettling dust is drawn through the apertures in the breastplate and the fettled parts are kept remote from the operator for his protection.

The interior of the dust box is advantageously constituted by the side and front air suction passage, and the breastplate may be rubber covered. The breastplate lies between the operator and the article to be fettled and the light dust is drawn into the slots of the breastplate by the extraction plant, thus avoiding pollution of the shop and contamination of the operator's clothing.

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COMPLETE SPECIFICATION
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Fig. 1.

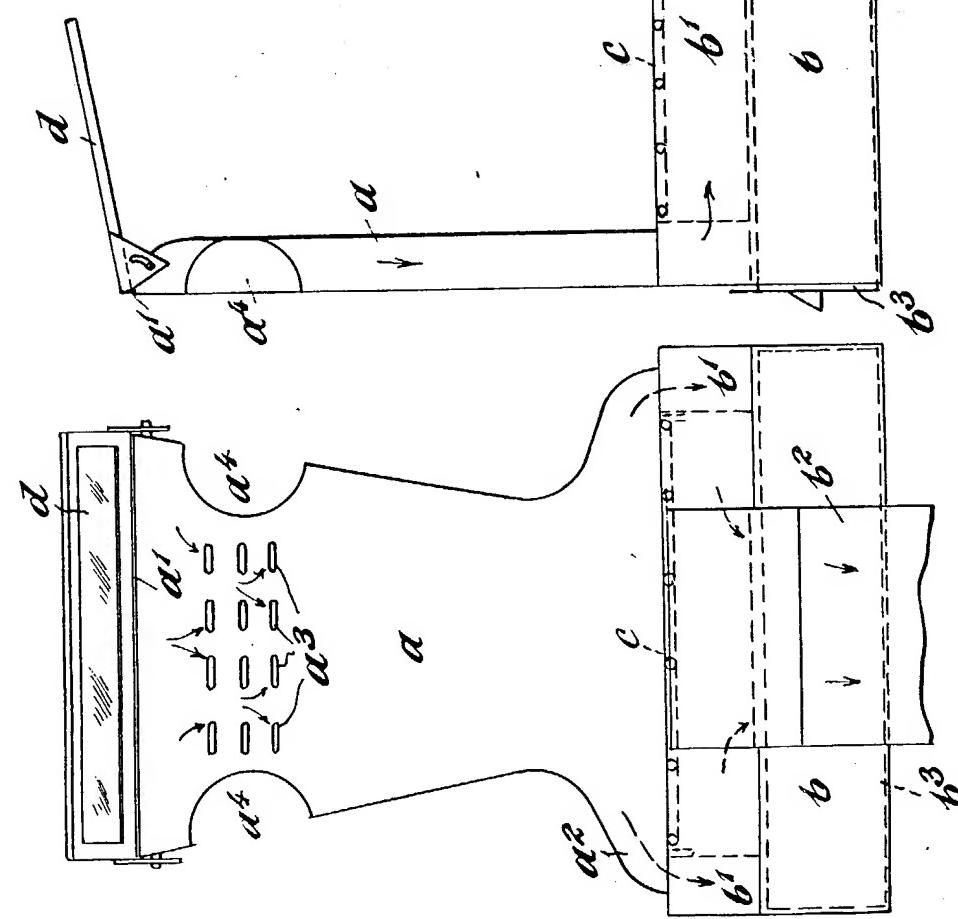


Fig. 2.

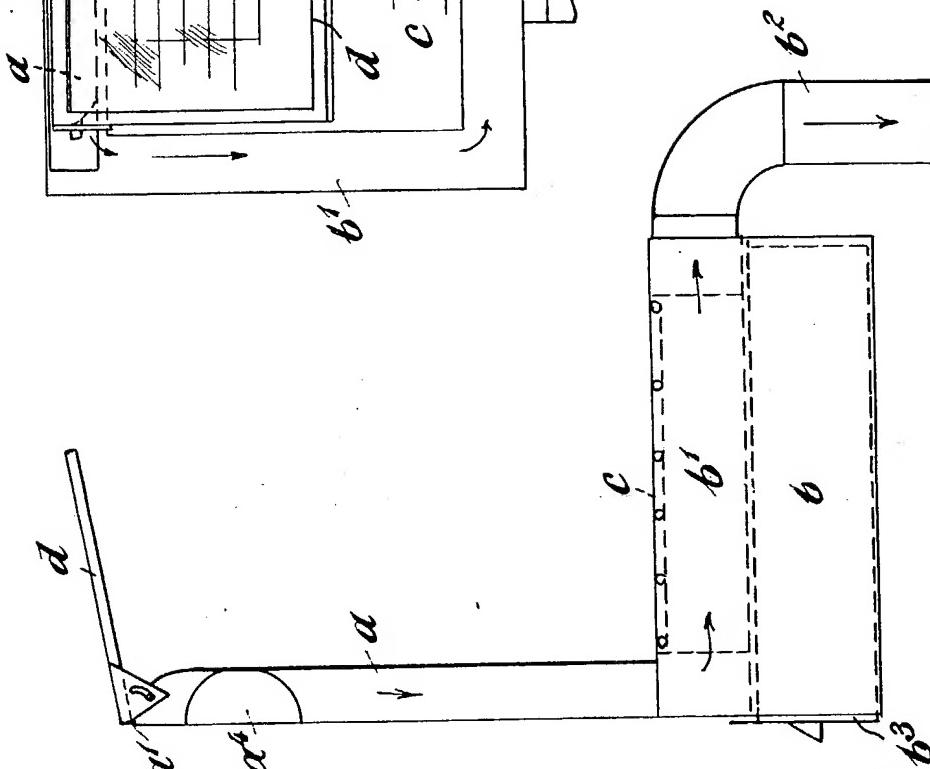
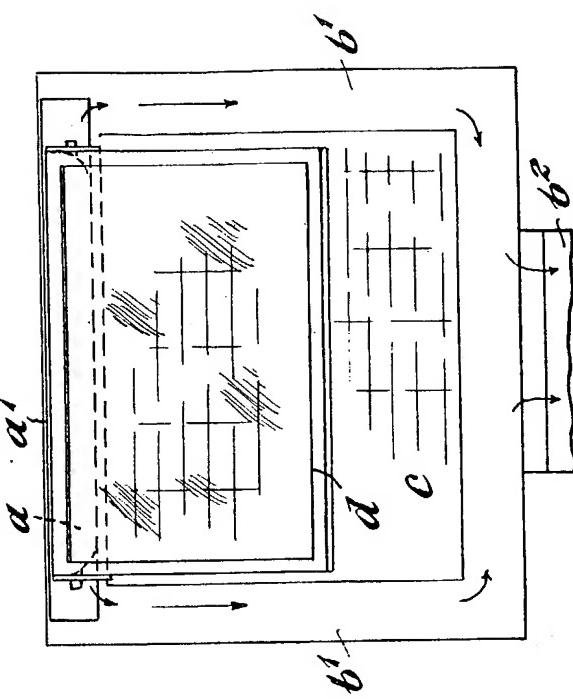


Fig. 3.



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